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ABSTRACT

Designed as a tool for vocational agriculture instructors to use in helping their students plan livestock enterprises that they will use as a part of their supervised occupational experience programs, this microcomputer program enables students to compare livestock enterprises for optimum combination of labor and capital resources to produce maximum income. The program (which was successfully tested on students at California High School in California, Missouri) allows the user to obtain either a video listing or a printed copy of the information that is calculated as a result of the responses to the questions at the beginning of the program. Written in the BASIC language, the program is based upon data obtained from "Farm Business Management Analysis: Analyzing the Farm Business," by Robert Denker, et al. and the "Missouri Farm Planning Handbook, Manual 75." (MN)

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FINAL REPORT

COMPARING LIVESTOCK ENTERPRISES FOR THE
OPTIMUM COMBINATION OF LABOR AND CAPITAL
RESOURCES TO PRODUCE MAXIMUM INCOME

(PROJECT NO. 82-131/132-600-11 (068-070)(A))

A MICROCOMPUTER PROGRAM WRITTEN BY:

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VOCATIONAL AGRICULTURE

CALIFORNIA HIGH SCHOOL

CALIFORNIA, MO 65018

JUNE 17, 1982

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ABSTRACT

Each year most, if not all Vocational Agriculture Instructors help their students plan livestock enterprises that the students will use as a part of their Supervised Occupational Experience Programs. Generally, part of the time that is spent is devoted to a study of budgets and how the student can compare different enterprises based upon 1) the amount of money they wish to earn; 2) the amount of labor they have available; and 3) the amount of capital that they have available. Time is then spent comparing this data and helping the student decide what type and amount of livestock would be needed to attain his or her goals. It is very important that a student learn this budgeting procedure; however, a vast amount of time can be spent if several different enterprises are compared.

The goal of this project was to develop a microcomputer program that would be able to perform the task of comparing various livestock enterprises in relation to the before mentioned factors. The goal has been accomplished and in a form that a student can utilize once the microcomputer program is loaded into the computer memory.

STATEMENT OF THE PROBLEM:

Students of Vocational Agriculture need assistance and guidance to properly develop individualized Supervised Occupational Experience Programs. Numerous days are spent in the classroom and on farm visits helping the student properly develop these SOEP programs. This is a very important part of Vocational Agriculture.

OBJECTIVES

OBJECTIVE 1. OBTAIN BACKGROUND MATERIAL

Resource material was purchased from the University of Missouri to help provide information concerning costs, income, labor, and capital requirements for the various enterprises that were compared in the writing of the microcomputer program.

This material included the following two items: A) Unit II, FARM BUSINESS MANAGEMENT ANALYSIS: ANALYZING THE FARM BUSINESS, by Robert Denker, Bob Stewart, Norman Rohrbach, and Carla Kirts, Volume 13, Number 7, Catalog Number AG-94-I, June 1981, University of Missouri-Columbia, Columbia, MO. and B) MISSOURI FARM PLANNING HANDBOOK, MANUAL 75, FM B160, Rev. 6/81, University of Missouri-Columbia, Columbia, MO.

OBJECTIVE 2. WRITE A MICROCOMPUTER PROGRAM

The second objective was to write a microcomputer program in BASIC Language that would address the problem. This has been accomplished and in a form that is self-promoting to the student. The student is requested to provide selected

information at certain times and then, if he/she will follow the instructions on the computer screen, the computer will provide a set of alternatives for the user.

The program allows the user to obtain either a video listing or a hard printed copy (if a line printer is available) of the information that is calculated as a result of the responses to the the questions at the beginning of the program.

POPULATION AND SAMPLE:

The microcomputer program was tested on students at California High School this spring after it was written. The students were able to use the program without difficulty.

CONCLUSIONS AND RECOMMENDATIONS:

The objectives of the original proposal were all accomplished. It is the recommendation of the author of this document that students be allowed to have access to the microcomputer and to programs such as these that will help them with their SOE programs, as well as with other classes, etc. The microcomputer is a tool that can have a tremendous impact on education and agriculture in the future. We should attempt to take advantage of the opportunities that it provides.

DISCLAIMER:

"The activity which is the subject of this report was supported in whole or in part by funds from the Department of Elementary and Secondary Education, Division of Career and Adult Education. However, the opinions expressed herein do not necessarily reflect the position or policies of the Missouri Department of Elementary and Secondary Education or the Division of Career and Adult Education, and no official endorsement should be inferred."

LIVESTOCK ENTERPRISE COMPARISONS

PROGRAM NAME: LSKCOMPR/DLR

A MICROCOMPUTER PROGRAM WRITTEN BY:

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CALIFORNIA HIGH SCHOOL
CALIFORNIA, MO 65018

JUNE 1982

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10 ***** PROGRAM NAME: LSKCOMPR/DLR *****
20 ***** PROGRAM PURPOSE: TO COMPARE LIVESTOCK ENTERPRISES TO
   DETERMINE THE NUMBER OF UNITS NECESSARY TO PROVIDE NEEDED INCOME
   WITHIN CERTAIN LABOR AND CAPITAL LIMITS *****
30 ***** WRITTEN BY: DALE L. RATCLIFF, Instructor of Vocational
   Agriculture, California High School, Rt. 3, Box 203A, California, MO
   65018, Telephone 314-796-3400 *****
40 CLEAR 100: DIM
   E$(12), E(12,3), C(12,3), CU(12,3), L(12,3), LU(12,3), I(12,3), IU(12,3), MU(1
   2,1), M(12,3): POKE 16419, 196: CLS: PRINT
50 PRINT *****"
60 PRINT **"
70 PRINT **          LIVESTOCK ENTERPRISE COMPARISONS          **"
80 PRINT **"
90 PRINT **          PROGRAM WRITTEN BY:          **"
100 PRINT **          DALE L. RATCLIFF          **"
110 PRINT **          VOCATIONAL AGRICULTURE INSTRUCTOR          **"
120 PRINT **          CALIFORNIA HIGH SCHOOL          **"
130 PRINT **          CALIFORNIA, MO.          **"
140 PRINT **"
150 PRINT *****"
160 PRINT@960, "PRESS ANY KEY TO CONTINUE";
170 A$=INKEY$: IFA$="-" THEN 170 ELSE CLS: GOSUB 1420
180 CLS: PRINT@16, "LIVESTOCK ENTERPRISE COMPARISONS": PRINT@90, "MASTER
   MENU": FOR X=32 TO 95: Y=6: SET(X,Y): NEXT X: FOR X=48 TO 77: Y=8: SET(X,Y): NEXT X: PR
   INT: PRINT: A1=0
190 PRINT@266, "1.  SET CAPITAL, INCOME, & LABOR GUIDELINES &"
200 PRINT@330, "   SELECT LIVESTOCK ENTERPRISES TO COMPARE"
210 PRINT@394, "2.  VIEW THE VIDEO OUTPUT  **"
220 PRINT@458, "3.  PRINT A HARD COPY OF THE COMPARISON INFO.  **"
230 PRINT@522, "4.  END THE PROGRAM"
240 PRINT@768, "*** NOTE: YOU MUST CHOOSE #1 FIRST -- THE VIDEO &
   HARDCOPY OUTPUT IS POSSIBLE ONLY AFTER GUIDELINES HAVE BEEN SET AND
   ENTERPRISES CHOSEN": PRINT@645, "SELECT 1, 2, 3, OR 4
   PLEASE": INPUT A1: IFA1<1 OR A1>4 THEN 240
250 IFA1=1 THEN 270 ELSE IFA1=4 THEN 280 ELSE IFA2<>1 THEN 260 ELSE 270
260 FOR Z=1 TO 5: PRINT@768, CHR$(31): FOR ZZ=1 TO 5: PRINT@768, "*** NOTE: YOU
   MUST CHOOSE #1 FIRST -- THE VIDEO & HARDCOPY OUTPUT IS POSSIBLE ONLY
   AFTER GUIDELINES HAVE BEEN SET AND ENTERPRISES
   CHOSEN": NEXT ZZ: NEXT Z: GOTO 240
270 ON A1 GOTO 310 , 1660 , 1910 , 280
280 CLS: PRINT@261, "***** ARE YOU SURE YOU WISH TO END THE PROGRAM
   YES OR NO "; INPUT T$: T$=LEFT$(T$, 1)
*****
290 IFT$="Y" THEN 300 ELSE IFT$="N" THEN 180 ELSE 280
300 CLS: PRINT@259, "*** LIVESTOCK COMPARISON PROGRAM TERMINATED FOR
   TODAY ***": FOR X=1 TO 9: PRINT: NEXT X: POKE 16419, 176: END
310 CLS: PRINT "*** PLEASE SET YOUR GUIDELINES AS THEY ARE CALLED
   FOR: ***"
320 PRINT@128, "HOW MUCH MONEY WOULD YOU LIKE TO EARN FROM THE
   LIVESTOCK ENTERPRISES THAT YOU SELECT": INPUT I1
330 PRINT@320, "HOW MANY HOURS OF LABOR CAN YOU SPEND ON THE LIVESTOCK
   ENTERPRISES THAT YOU SELECT": INPUT L1
340 PRINT@512, "WHAT IS THE MAXIMUM AMOUNT OF CAPITAL THAT YOU CAN
   INVEST IN THE LIVESTOCK ENTERPRISES THAT YOU SELECT (***) NOTE: THIS
   SHOULD INCLUDE BOTH THE AMOUNT OF OPERATING CAPITAL THAT YOU HAVE"
350 INPUT "AVAILABLE AND THE VALUE OF YOUR FACILITIES AND EQUIPMENT
   THAT WILL BE USED WITH THIS ENTERPRISE (***) ": C1
360 PRINT@896, "ARE ALL OF THE AMOUNTS CORRECT (YES or NO)
   ": INPUT Q$: Q$=LEFT$(Q$, 1): IF Q$="Y" THEN 370 ELSE IF Q$="N" THEN 310
   ELSE PRINT@896, CHR$(31): GOTO 360
370 CLS: PRINT "WHICH LIVESTOCK ENTERPRISES DO YOU WISH TO COMPARE

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TODAY?          *****  ENTER YES OR NO FOR EACH ANSWER
*****":PRINT:NE=0:A2=1
380 PRINT"SOWS RAISING 14  --  40# FEEDER PIGS/YEAR
":INPUTC1$:C1$=LEFT$(C1$,1)
390 PRINT"SOWS RAISING 14  --  60# FEEDER PIGS/YEAR
":INPUTC2$:C1$=LEFT$(C2$,1)
400 PRINT"SOWS RAISING 14  --  MARKET HOGS/YEAR
":INPUTC3$:C3$=LEFT$(C3$,1)
410 PRINT"PURCHASING 40# FEEDER PIGS
":INPUTC4$:C4$=LEFT$(C4$,1)
420 PRINT"PURCHASING 50# FEEDER PIGS
":INPUTC5$:C5$=LEFT$(C5$,1)
430 PRINT"PURCHASING 60# FEEDER PIGS
":INPUTC6$:C6$=LEFT$(C6$,1)
440 PRINT"BEEF COW W/ SPRING CALF
":INPUTC7$:C7$=LEFT$(C7$,1)
450 PRINT"BEEF COW W/ FALL CALF
":INPUTC8$:C8$=LEFT$(C8$,1)
460 PRINT"BACKGROUNDING STEERS -- 450 TO 750#
":INPUTC9$:C9$=LEFT$(C9$,1)
470 PRINT"FEEDING OUT STEERS -- 750 TO 1050#
":INPUTD1$:D1$=LEFT$(D1$,1)
480 PRINT"FEEDING OUT STEERS -- 450 TO 1050#
":INPUTD2$:D2$=LEFT$(D2$,1)
490 PRINT"RAISING A SHOW STEER -- 450 TO 1100#
":INPUTD3$:D3$=LEFT$(D3$,1)
500 PRINT"960,"IS THE INFORMATION CORRECT (YES OR NO)
":INPUTQ$:Q$=LEFT$(Q$,1):IFQ$="Y"THEN510 ELSEIFQ$="N"THEN370
ELSE500
510 IFA2=2THEN310 ELSE520
520 CLS:PRINT"320,"THE INFORMATION FOR COMPARING THE LIVESTOCK
ENTERPRISES IS BEING                                     CALCULATED"
530 X=1
540 IF C1$="Y" THEN GOSUB700 :X=X+1
550 IF C2$="Y" THEN GOSUB760 :X=X+1
560 IF C3$="Y" THEN GOSUB820 :X=X+1
570 IF C4$="Y" THEN GOSUB880 :X=X+1
580 IF C5$="Y" THEN GOSUB940 :X=X+1
590 IF C6$="Y" THEN GOSUB1000 :X=X+1
600 IF C7$="Y" THEN GOSUB1060 :X=X+1
610 IF C8$="Y" THEN GOSUB1120 :X=X+1
620 IF C9$="Y" THEN GOSUB1180 :X=X+1
630 IF D1$="Y" THEN GOSUB1240 :X=X+1
640 IF D2$="Y" THEN GOSUB1300 :X=X+1
650 IF D3$="Y" THEN GOSUB1360 :X=X+1
660 NE=X-1:GOTO1480
670 ***** THE DATA BELOW DETERMINES THE GUIDELINES FOR THE
ENTERPRISE COMPARISONS.
680 ***** THE ARRAY IDENTIFICATIONS ARE AS FOLLOWS: E$(X) =
THE IDENTIFICATION OF THE ENTERPRISE, E(X,1) = THE AMOUNT OF
PROFIT THAT ENTERPRISE WILL EARN, E(X,2) = THE HOURS LABOR
REQUIRED, E(X,3) = THE AMOUNT OF CAPITAL REQUIRED.
690 ***** ALL OF THE AMOUNTS ABOVE ARE ON A "PER UNIT" BASIS,
I.E. 1 SOW OR 1 COW, ETC.
700 ***** DATA FOR SOWS RAISING 14  --  40# FEEDER PIGS/YEAR
710 E$(X)="SOW W/14 - 40# FDR PIGS"
720 E(X,1)=248
730 E(X,2)=24
740 E(X,3)=472
750 RETURN
760 ***** DATA FOR SOWS RAISING 14  --  60# FEEDER PIGS/YEAR

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770 E$(X)="SOW W/14 - 60# FDR PIGS"
780 E(X,1)=346
790 E(X,2)=28
800 E(X,3)=550
810 RETURN
820 '*** DATA FOR SOWS RAISING 14 --- MARKET HOGS/YEAR
830 E$(X)="SOW W/14 - MARKET HOGS"
840 E(X,1)=412
850 E(X,2)=36
860 E(X,3)=674
870 RETURN
880 '*** DATA FOR PURCHASING 40# FEEDER PIGS
890 E$(X)="PUR 40# FDR. PIG"
900 E(X,1)=8.4
910 E(X,2)=1.5
920 E(X,3)=39.3
930 RETURN
940 '*** DATA FOR PURCHASING 50# FEEDER PIGS
950 E$(X)="PUR 50# FDR. PIG"
960 E(X,1)=6.7
970 E(X,2)=1.4
980 E(X,3)=32
990 RETURN
1000 '*** DATA FOR PURCHASING 60# FEEDER PIG
1010 E$(X)="PUR 60# FDR. PIG"
1020 E(X,1)=5.8
1030 E(X,2)=1.3
1040 E(X,3)=28.1
1050 RETURN
1060 '*** DATA FOR BEEF COW W/ SPRING CALF
1070 E$(X)="BEEF COW W/ SPRING CALF"
1080 E(X,1)=201
1090 E(X,2)=15
1100 E(X,3)=880
1110 RETURN
1120 '*** DATA FOR BEEF COW W/ FALL CALF
1130 E$(X)="BEEF COW W/ FALL CALF"
1140 E(X,1)=220
1150 E(X,2)=17
1160 E(X,3)=950
1170 RETURN
1180 '*** DATA FOR GROWING STEERS 450 TO 750#
1190 E$(X)="GROWING STEERS 450-750#"
1200 E(X,1)=45
1210 E(X,2)=3
1220 E(X,3)=285
1230 RETURN
1240 '*** DATA FOR FEEDOUT STEERS 750 TO 1050#
1250 E$(X)="FEEDOUT STEER 750-1050#"
1260 E(X,1)=51
1270 E(X,2)=3
1280 E(X,3)=305
1290 RETURN
1300 '*** DATA FOR FEEDING OUT STEER 450 TO 1050#
1310 E$(X)="FEEDOUT STEER 450-1050#"
1320 E(X,1)=101
1330 E(X,2)=5
1340 E(X,3)=506
1350 RETURN
1360 '*** DATA FOR SHOW STEER 450 TO 1100#
1370 E$(X)="SHOW STEER 450-1100#"

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1380 E(X,1)=80
1390 E(X,2)=25
1400 E(X,3)=800
1410 RETURN
1420 ***** SOURCE OF DATA TO CALCULATE ENTERPRISE COMPARISON TABLES
*****
1430 PRINT@256," THE DATA USED IN CALCULATING THE ENTERPRISE
COMPARISONS IS BASED UPON INFORMATION FOUND IN 'MANUAL 75' & FBMA
YEAR II INSTRUCTORS GUIDE (AGRIC. EDUC. DEPT.), UNIVERSITY OF
MISSOURI, COLUMBIA, MO. "
1440 PRINT:PRINT" YOU MAY CHANGE THE ENTERPRISES AS WELL AS THE
INCOME, LABOR, AND CAPITAL GUIDELINES VERY EASILY BY EDITING
LINES 700 THRU 1410."
1450 PRINT@960,"PRESS ANY KEY TO CONTINUE";
1460 A$=INKEY$:IFA$=""GOTO1460
1470 RETURN
1480 ***** PRINTOUT CALCULATION SECTION *****
1490 ***** CALCULATION OF NUMBER OF UNITS TO OBTAIN DESIRED INCOME
*****
1500 FOR X=1 TO NE:N=I1/E(X,1):IU(X,1)=INT(N+.5)
1510 I(X,1)=IU(X,1)*E(X,1)
1520 IF I(X,1)<I1 THEN IU(X,1)=IU(X,1)+1:GOTO1510
1530 I(X,2)=IU(X,1)*E(X,2):I(X,3)=IU(X,1)*E(X,3):NEXTX
1540 ***** CALCULATION OF NUMBER OF UNITS POSSIBLE FOR THE AVAILABLE
LABOR *****
1550 FOR X=1 TO
NE:N=L1/E(X,2):LU(X,2)=INT(N):L(X,1)=LU(X,2)*E(X,1):L(X,2)=LU(X,2)*E(X
,2):L(X,3)=LU(X,2)*E(X,3):NEXTX
1560 ***** CALCULATION OF NUMBER OF UNITS POSSIBLE FOR THE AVAILABLE
CAPITAL *****
1570 FOR X=1 TO
NE:N=C1/E(X,3):CU(X,3)=INT(N):C(X,1)=CU(X,3)*E(X,1):C(X,2)=CU(X,3)*E(X
,2):C(X,3)=CU(X,3)*E(X,3):NEXTX
1580 ***** SORTING ROUTINE TO DETERMINE THE MOST LIMITING FACTOR --
LABOR OR CAPITAL *****
1590 FOR X=1 TO NE
1600 IF LU(X,2)<= CU(X,3) THEN 1610 ELSE 1620
1610 MU(X,1)= LU(X,2): GOTO 1630
1620 MU(X,1)= CU(X,3)
1630 NEXT X
1640 ***** CALCULATION ROUTINE TO DETERMINE TOTAL INCOME CONSIDERING
MOST LIMITING FACTOR -- LABOR OR CAPITAL *****
1650
FORX=1TONE:M(X,1)=MU(X,1)*E(X,1):M(X,2)=MU(X,1)*E(X,2):M(X,3)=MU(X,1)*
E(X,3):NEXTX:GOTO160
1660 ***** VIDEO PRINTOUT SECTION *****
1670 CLS
1680 PRINT@64,"THE ENTERPRISES THAT YOU SELECTED TO COMPARE WILL BE
COMPARED IN THE THREE TABLES THAT FOLLOW. THEY ARE AS FOLLOWS:
1690 FORX=0T0121:Y=9:SET(X,Y):NEXTX:PRINT@256,"TABLE 1 IS BASED UPON
THE AMOUNT OF INCOME THAT YOU DESIRED":PRINT@384,"TABLE 2 IS BASED
UPON THE AMOUNT OF LABOR YOU HAVE AVAILABLE":PRINT@512,"TABLE 3 IS
BASED UPON THE AMOUNT OF CAPITAL YOU HAVE AVAILABLE"
1700 PRINT@640,"TABLE 4 IS BASED UPON THE NUMBER OF UNITS POSSIBLE
CONSIDERING MOST LIMITING FACTOR -- LABOR OR
CAPITAL":PRINT@960,"PRESS ANY KEY TO CONTINUE";
1710 A$=INKEY$:IFA$="" GOTO 1710
1720 CLS: ***** TABLE 1 VIDEO PRINTOUT (BASED UPON INCOME DESIRED)
*****
1730 PRINT@0,"TABLE 1: UNITS REQUIRED TO PRODUCE AT LEAST $";I1;"
INCOME"

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1740 P1$="ENTERPRISE          UNITS      INCOME  LABOR  CAPITAL
REQ.
1750 P$="%                    % ##### $#####.##  #####
$#####.##"
1760
PRINT@64,P1$:PRINT@128,STRING$(62,"*"):FORX=1TONE:PRINTUSINGP$;E$(X);I
U(X,1);I(X,1);I(X,2);I(X,3):NEXTX:PRINT@960,"PRESS ANY KEY TO
CONTINUE";
1770 A$=INKEY$:IFA$=""GOTO1770
1780 CLS: '***** TABLE 2 VIDEO PRINTOUT (BASED UPON LABOR AVAILABLE)
*****
1790 PRINT@0,"TABLE 2:  UNITS REQUIRED TO USE NOT OVER ";L1;" HOURS
OF LABOR"
1800
PRINT@64,P1$:PRINT@128,STRING$(62,"*"):FORX=1TONE:PRINTUSINGP$;E$(X);L
U(X,2);L(X,1);L(X,2);L(X,3):NEXTX:PRINT@960,"PRESS ANY KEY TO
CONTINUE";
1810 A$=INKEY$:IFA$="" GOTO 1810
1820 CLS: '***** TABLE 3 VIDEO PRINTOUT (BASED UPON CAPITAL
AVAILABLE) *****
1830 PRINT@0,"TABLE 3:  UNITS REQUIRED TO USE NOT OVER $";C1;"
CAPITAL"
1840
PRINT@64,P1$:PRINT@128,STRING$(62,"*"):FORX=1TONE:PRINTUSINGP$;E$(X);C
U(X,3);C(X,1);C(X,2);C(X,3):NEXTX:PRINT@960,"PRESS ANY KEY TO
CONTINUE";
1850 A$=INKEY$:IFA$=""GOTO1850
1860 CLS: '***** TABLE 4 VIDEO PRINTOUT (BASED UPON THE NUMBER ON
UNITS POSSIBLE CONSIDERING THE MOST LIMITING FACTOR -- LABOR OR
CAPITAL *****
1870 PRINT@0,"TABLE 4:  UNITS & MAX. INCOME CONSIDERING MOST LIMITING
FACTOR"
1880
PRINT@64,P1$:PRINT@128,STRING$(62,"*"):FORX=1TONE:PRINTUSINGP$;E$(X);M
U(X,1);M(X,1);M(X,2);M(X,3):NEXTX:PRINT@960,"PRESS ANY KEY TO
CONTINUE";
1890 A$=INKEY$:IFA$=""GOTO1890
1900 GOTO180
1910 '**** HARD COPY PRINTOUT SECTION ****
1920 L1$="ENTERPRISE          UNITS      INCOME
LABOR      CAPITAL REQ.
1930 L$="%                    % ##### $#####.##
##### $#####.##"
1940 GOTO 2060
1950 CLS:PRINT@64,"          ***** ADJUST THE PAPER IN THE PRINTER
*****"
1960 PRINT:PRINT"PRESS 'Y' TO PRINTOUT A HARD COPY OF EACH TABLE OF
INFORMATION      'N' TO RETURN TO THE MENU WITHOUT
PRINTING";:INPUTZ$
1970 IFZ$="Y"THENRETURNELSEIFZ$="N"THEN180 ELSE1960
1980 RETURN
1990 LPRINTTAB(24)"LIVESTOCK ENTERPRISE COMPARISONS":LPRINT
2000 LPRINTTAB(23)"VOCATIONAL AGRICULTURE DEPARTMENT"
2010 LPRINTTAB(29)"CALIFORNIA HIGH SCHOOL"
2020 LPRINTTAB(30)"CALIFORNIA, MO 65018"
2030 LPRINTTAB(32)"DALE L. RATCLIFF"
2040 LPRINTTAB(34)"INSTRUCTOR"
2050 LPRINT:LPRINT:RETURN
2060 CLS: '**** HARD COPY FORMATING ROUTINE ****
2070 PRINT@64,"          HOW DO YOU WISH TO FORMAT THE PRINTOUT"
2080 PRINT@140,"=====

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2090 PRINT@268,"1. PRINT EACH TABLE ON A PAGE BY ITSELF"
2100 PRINT@332,"2. PRINT 2 TABLES ON A PAGE"
2110 PRINT@592,"SELECT 1 OR 2 PLEASE";:INPUTZ:IFZ=1THEN2200
ELSEIFZ=2THEN2250 ELSE2110
2120 LPRINT"TABLE 1: NUMBER OF UNITS REQUIRED TO PRODUCE AT LEAST
$";I1;" INCOME"
2130 LPRINT"ENTERPRISE          UNITS          INCOME
LABOR      CAPITAL
REQ.":LPRINTSTRING$(79,"="):FORX=1TONE:LPRINTUSINGL$;E$(X);IU(X,1);I(X
,1);I(X,2);I(X,3):NEXTX:LPRINT:RETURN
2140 LPRINT"TABLE 2: NUMBER OF UNITS REQUIRED TO USE NOT OVER ";L1;"
HOURS OF LABOR"
2150 LPRINT"ENTERPRISE          UNITS          INCOME
LABOR      CAPITAL
REQ.":LPRINTSTRING$(79,"="):FORX=1TONE:LPRINTUSINGL$;E$(X);LU(X,2);L(X
,1);L(X,2);L(X,3):NEXTX:LPRINT:RETURN
2160 LPRINT"TABLE 3: NUMBER OF UNITS REQUIRED TO USE NOT OVER
$";C1;" CAPITAL"
2170 LPRINT"ENTERPRISE          UNITS          INCOME
LABOR      CAPITAL
REQ.":LPRINTSTRING$(79,"="):FORX=1TONE:LPRINTUSINGL$;E$(X);CU(X,3);C(X
,1);C(X,2);C(X,3):NEXTX:LPRINT:RETURN
2180 LPRINT"TABLE 4: UNITS & INCOME POSSIBLE CONSIDERING LABOR &
CAPITAL LIMITS"
2190 LPRINT"ENTERPRISE          UNITS          INCOME
LABOR      CAPITAL
REQ.":LPRINTSTRING$(79,"="):FORX=1TONE:LPRINTUSINGL$;E$(X);MU(X,1);M(X
,1);M(X,2);M(X,3):NEXTX:LPRINT:RETURN
2200 ***** HARDCOPY ROUTINE FOR PRINTING EACH PAGE ON A TABLE BY
ITSELF *****
2210 GOSUB1950 :FORS=1TO10:LPRINT:NEXTS:GOSUB1990
:LPRINT:LPRINT:LPRINT:GOSUB2120 :LPRINT:LPRINT:GOSUB2280
:FORS=1TO23:LPRINT:NEXTS
2220 GOSUB1950 :FORS=1TO10:LPRINT:NEXTS:GOSUB1990
:LPRINT:LPRINT:LPRINT:GOSUB2140 :LPRINT:LPRINT:GOSUB2280
:FORS=1TO23:LPRINT:NEXTS
2230 GOSUB1950 :FORS=1TO 10:LPRINT:NEXTS:GOSUB1990
:LPRINT:LPRINT:LPRINT:GOSUB2160 :LPRINT:LPRINT:GOSUB2280
:FORS=1TO23:LPRINT:NEXTS
2240 GOSUB1950 :FORS=1TO10:LPRINT:NEXTS:GOSUB1990
:LPRINT:LPRINT:LPRINT:GOSUB2180 :LPRINT:LPRINT:GOSUB2280
:FORS=1TO23:LPRINT:NEXTS:GOTO180
2250 ***** HARDCOPY ROUTINE FOR PRINTING 2 TABLES ON A PAGE *****
2260 GOSUB1950 :FORS=1TO5:LPRINT:NEXTS:GOSUB1990
:LPRINT:LPRINT:GOSUB2120 :LPRINT:LPRINT:LPRINT:GOSUB2140
:LPRINT:LPRINT:GOSUB2280 :FORS=1TO10:LPRINT:NEXTS
2270 GOSUB1950 :FORS=1TO5:LPRINT:NEXTS:GOSUB1990
:LPRINT:LPRINT:GOSUB2160 :LPRINT:LPRINT:LPRINT:GOSUB2180
:LPRINT:LPRINT:GOSUB2280 :FORS=1TO10:LPRINT:NEXTS:GOTO180
2280 ***** INFORMATION SOURCE CREDIT STATEMENT *****
2290 LPRINT"DATA USED IN CALCULATING THE ENTERPRISE COMPARISONS IS
BASED UPON INFORMATION":LPRINT"FOUND IN 'MANUAL 75' & FBMA YEAR II
INSTRUCTORS GUIDE (AGRIC. EDUC. DEPT.):":LPRINT"UNIVERSITY OF
MISSOURI, COLUMBIA, MO "
2300 RETURN

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